

66011

3
257

SECRET

R 261845Z SEP 68
FM NPIC WASHDC
TO RUEOJFA/DIA (DIAXX-2)
RUEOJFA/JCS (JRC)
RUEFHQA/HQ USAF FOR AFNICAD & AFKDRP
RUCSAAA/SAC (DIR)
RUCSAAA/544TH ARIW OFFUTT AFB
RUWNDDA/9 SRW (DCI)
RUHHHQA/CINCPAC
RUHHBRA/CINCPACFLT
RUHHABA/CINCPACAF (DIR)
RUHHHQA/CINCSARPAC
RUHJAR/G7 RTS [REDACTED]
RUCIFQA/AERONAUTICAL SYSTEMS DIV (ASZB), WPAFB OHIO
BT

25X1A

ACTION COPY

25X1 S E C R E T [REDACTED] CITE NPIC 4638
SUBJECT: EVALUATION OF GIANT SCALE MISSION 8250-CHS (MOD)
1. MISSION 8250-CHS (MOD) WAS FLOWN 6 SEP 68 [REDACTED]
[REDACTED] BEFORE DEPLOYMENT TO SOUTHEAST ASIA. A SECOND FLIGHT
WITH THE [REDACTED] WILL BE CONDUCTED IN SOUTHEAST ASIA TO DETER-

25X1D

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25X1D

25X1 PAGE 2 RUEADJU 53 S E C R E T [REDACTED]
[REDACTED] IF THE ATMOSPHERE IS THE GREATEST FACTOR IN IMAGE DEGRADATION.
THIS EVALUATION WAS PERFORMED ON THE RIGHT AND LEFT TECHNICAL
OBJECTIVE CAMERAS AND THE RIGHT AND LEFT OPERATIONAL OBJECTIVE CAMERAS.
2. ALL CAMERAS WERE OPERATIONAL THROUGHOUT THE MISSION. SOME
PORTIONS OF THE MISSION EXHIBIT THIN DENSITY, HOWEVER, IN GENERAL,
THE DENSITY AND CONTRAST ARE SATISFACTORY.
3. QUALITY SUMMARY:

A. LEFT TECHNICAL OBJECTIVE CAMERA, S/N 64-19:
(1) THE IMAGERY THROUGH THE FIRST 649 OF THE 1800
FRAMES OF THE MISSION IS COMPARABLE TO THE BEST THIS
SYSTEM HAS PROVIDED (NICE GIRL). THIS PORTION OF THE
MISSION INCLUDES THREE CAMERA-OFFS OF SHORT DURATION (2
TO 5 MINUTES) BETWEEN FRAMES 178/179, 353/351, AND 534/535.
NO CHANGES IN IMAGE QUALITY WERE NOTED. HOWEVER, AFTER
THE LONG CAMERA OFF (1 HOUR AND 21 MINUTES), BETWEEN FRAMES
649/650, THE IMAGERY IS DEGRADED. GROUND RESOLUTION IS
ESTIMATED TO BE [REDACTED] AFTER FRAME 650.
(2) THREE MORE CAMERA OFFS OF SHORT DURATION OCCURRED
BETWEEN FRAMES 818/819, 963/964, AND 1158/1159 WITH NO
APPARENT EFFECT ON THE IMAGERY. A SECOND LONG CAMERA OFF

25X1D

25X1 PAGE 3 RUEADJU 53 S E C R E T [REDACTED]
[REDACTED] OCCURRED AT FRAME 1270 (1 HOUR 23 MINUTES) AFTER WHICH THE
IMAGERY EXHIBITS FURTHER DEGRADATION. GROUND RESOLUTION
IS ESTIMATED TO BE [REDACTED] AFTER FRAME 1271. THE CAUSE OF
THE DEGRADATION IS UNKNOWN ALTHOUGH THE IMAGERY APPEARS TO
BE OUT OF FOCUS WHICH COULD BE CAUSED BY CONDENSATION, THERMAL
CHANGES, ETC.

25X1D

(3) IMAGE DEGRADATION IS ALSO PRESENT WITHIN A FRAME
AT THE BEGINNING OF SLIT MOVEMENT, WHEN THE SLIT MOVED TOWARD
THE DATA BLOCK FOR THAT PARTICULAR FRAME. THE DEGRADED
IMAGERY IS LOCATED WITHIN THE FIRST 0.75 INCH OF SLIT TRAVEL

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GROUP 1
Excluded from automatic
downgrading and
declassification

. 2 .

AND WITHIN THREE INCHES OF EACH EDGE OF THE FORMAT; IE., THE IMAGERY NEAR THE CENTER OF THE FORMAT APPEARS NORMAL. THE IMAGERY INDICATES THAT THERE MIGHT HAVE BEEN INADEQUATE VACUUM AND PART OF THE FILM WAS NOT IN POSITION AT THE BEGINNING OF EXPOSURE.

(4) RESOLUTION BANDING (SUBTLE CHANGES IN QUALITY ALONG LINES PARALLEL TO THE SLIT) IS NOTED IN SOME PORTIONS OF THE FILM. THIS ANOMALY IS ONLY ASSOCIATED WITH AREAS WHERE THE SHUTTER SPEED WAS 40 INCHES PER SECOND AS LISTED IN THE MISSION EPHEMERIS.

25X1

PAGE 4 RUEADJU 53 S E C R E T [REDACTED]

B. RIGHT TECHNICAL OBJECTIVE CAMERA, S/N 64-241

(1) THE IMAGE QUALITY FOLLOWS THE SAME TREND AS NOTED ON THE MATERIAL FROM THE LEFT TECHNICAL OBJECTIVE CAMERA, HOWEVER, THE DEGRADATION IS MORE SEVERE.

(2) THREE SHORT CAMERA OFF/ONS AT FRAMES 181/182, 333/334, AND 539/540 APPEAR TO HAVE NO EFFECT ON THE IMAGERY. THE QUALITY OF THE IMAGERY IN THIS AREA IS COMPARABLE TO THE BEST THIS SYSTEM HAS PROVIDED. HOWEVER, AFTER THE LONG OFF/ON AT 655/656 (1 HOUR 21 MINUTES) THE IMAGERY APPEARS TO BE OUT OF FOCUS. THE GROUND RESOLUTION IS ESTIMATED TO RANGE FROM [REDACTED] FROM FRAME 656 TO THE END OF THE MISSION.

C. LEFT OPERATIONAL OBJECTIVE CAMERA, S/N 4023:

(1) GROUND RESOLUTION IS ESTIMATED TO BE BETWEEN [REDACTED] WHICH IS NOT QUITE EQUAL TO THE BEST THIS SYSTEM HAS PROVIDED. THE QUALITY IS CONSISTENT THROUGHOUT WITH TYPICAL CHANGES IN RESOLUTION ASSOCIATED WITH CHANGES IN THE SCAN ANGLE OF THE CAMERA.

D. RIGHT OPERATIONAL OBJECTIVE CAMERA, S/N 4016:

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25X1

PAGE 5 RUEADJU 53 S E C R E T [REDACTED]

(1) THE GROUND RESOLUTION IS ESTIMATED TO BE BETWEEN [REDACTED] WITH THE SHARPEST IMAGERY LOCATED NEAR 20 DEGREES OF SCAN.

(2) THE IMAGERY ON THE FORWARD LOOKING FRAMES IS SLIGHTLY BETTER THAN THE AFT LOOKING FRAMES THROUGHOUT THE MISSION.

GP-1

25X1

S E C R E T [REDACTED]

END OF MSG

25X1D

ROUTING SLIP

TAD		DATE	
FROM	TO	DATE	INITIALS
	CH/TSSG		
	CH/TAD		
	DC/TAD		<i>CH</i>
	SEC/TAD		
☒	CH/IEB		<i>RL</i>
☒	DCh/IEB		<i>[Signature]</i>
	CH/IEB/SEC I		
☒	CH/IEB SEC II		<i>(H)</i>
	CH/ISAB		
	DCh/ISAB		
	CH/ISAB/PAS		
	CH/ISAB/DAS		
	CH/OAB		
	DC/OAB		
	FILE: <i>Mon 8250</i>		